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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/852,376	05/10/2001	Eric A. Jacobsen	884.427US1	5426	
21186 7	21186 7590 11/15/2005			EXAMINER	
SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH 1600 TCF TOWER			LY, ANH VU H		
121 SOUTH EIGHT STREET		ART UNIT	PAPER NUMBER		
MINNEAPOLIS, MN 55402			2667		

DATE MAILED: 11/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Advisory Action	09/852,376	JACOBSEN, ERIC	A			
Before the Filing of an Appeal Brief	Examiner	Art Unit				
	Anh-Vu H. Ly	2667				
The MAILING DATE of this communication appe	ars on the cover sheet with the c	orrespondence add	Iress			
THE REPLY FILED <u>20 October 2005</u> FAILS TO PLACE THIS A	HE REPLY FILED <u>20 October 2005</u> FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.					
☑ The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:						
a) Mr The period for reply expires <u>3 months from the mailing</u> date of the final rejection. b) The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later.						
The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection. Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).						
Extensions of time may be obtained under 37 CFR 1.136(a). The date have been filed is the date for purposes of determining the period of ex under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b) NOTICE OF APPEAL	on which the petition under 37 CFR 1.1 tension and the corresponding amount shortened statutory period for reply origing than three months after the mailing da	of the fee. The approprinally set in the final Off	iate extension fee ice action; or (2) as			
 The Notice of Appeal was filed on A brief in comp filing the Notice of Appeal (37 CFR 41.37(a)), or any exte a Notice of Appeal has been filed, any reply must be filed AMENDMENTS 	nsion thereof (37 CFR 41.37(e)), to	avoid dismissal of th				
3. The proposed amendment(s) filed after a final rejection,	but prior to the date of filing a brief,	will not be entered b	ecause			
(a) They raise new issues that would require further consideration and/or search (see NOTE below);						
(b) They raise the issue of new matter (see NOTE below);						
(c) They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for						
appeal; and/or (d) They present additional claims without canceling a corresponding number of finally rejected claims.						
NOTE: (See 37 CFR 1.116 and 41.33(a)). 4. The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).						
5. Applicant's reply has overcome the following rejection(s)		mpilant Amendment	(F10L-324).			
6. Newly proposed or amended claim(s) would be al		timely filed amendme	ent canceling the			
non-allowable claim(s). 7. For purposes of appeal, the proposed amendment(s): a) will not be entered, or b) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended. The status of the claim(s) is (or will be) as follows: Claim(s) allowed:						
Claim(s) objected to: Claim(s) rejected: Claim(s) withdrawn from consideration:						
AFFIDAVIT OR OTHER EVIDENCE 8. ☐ The affidavit or other evidence filed after a final action, bu	ut before or on the date of filing a N	ation of Appeal will pe	at ha antarad			
because applicant failed to provide a showing of good an was not earlier presented. See 37 CFR 1.116(e).	d sufficient reasons why the affidav	it or other evidence i	s necessary and			
9. The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to of showing a good and sufficient reasons why it is necessary	overcome <u>all</u> rejections under apper y and was not earlier presented. S	al and/or appellant fa ee 37 CFR 41.33(d)(ils to provide a 1).			
 The affidavit or other evidence is entered. An explanatio REQUEST FOR RECONSIDERATION/OTHER 		-				
 The request for reconsideration has been considered bu <u>See Continuation Sheet.</u> 	t does NOT place the application in	n condition for allowa	nce because:			
12. ☐ Note the attached Information Disclosure Statement(s).13. ☐ Other:	(PTO/SB/08 or PTO-1449) Paper N	lo(s)				

Continuation of 11, does NOT place the application in condition for allowance because: Applicant argues in page 7 that considering every channel or subcarrier as an interested subcarrier does not read on the element of identifying subcarriers of interest because no identifying then occurs. Examiner respectfully disagrees. Herein, all subcarriers are already considered as interested subcarriers before passing on for further processing (Fig. 2). Applicant further argues in page 7 that applicant can not find any reference to subcarriers in Kadous. Examiner respectfully disagrees. Kadous discloses (see Abstract) a method and apparatus for estimating channels in OFDM communication systems. As is known in the art, OFDM systems using multiple subcarriers to carry data. Therefore, Kadous discloses subcarriers for carrying data (Fig. 1). Applicant further argues in page 8 that Kadous does not disclose obtaining a first interpolation vector corresponding to a first subcarrier of interest and calculating a dot product of the pilot vector and first interpolation vector to generate an equalization coefficients for first subcarrier of interest. Examiner respectfully disagrees. Kadous discloses on page 3, 32nd paragraph and Fig. 2, that the least square (LS) channel estimate (pilot vector) is then determined by performing division on the training sequence (pilot symbols) in LS estimator 56 (generating a pilot vector using pilot symbols from OFDM symbol). Coefficient interpolator and channel estimator then multiplies (dot product) interpolation coefficient for each channel (herein, every channel or subcarrier is considered as an interested subcarrier) (obtaining a first interpolation vector corresponding to a first subscarrier of interest) by the LS estimator to obtain the final channel estimates (calculating a dot product of pilot vector and first interpolation vector to generate an equalization coefficient for first subcarrier of interest). Applicant further argues in page 8 that equalization coefficients are not final channel estimates. Examiner respectfully diasgrees. Equalization coefficients are coefficients to be used in some mathematical formulas. Herein, the channel estimates also include coefficients to be used for removing undesired channel effects. Applicant further argues in pages 9-11 that Kadous fails to disclose other limitations as recited in the claims. Examiner respectfully disagrees. The final rejection dated August 18, 2005 clearly indicated that all limitations as recited in the claims were probably rejected and included further elaborations to clarify examiner's postion regarding the teachings of Kadous.

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